

Appl. No. 09/892,678
Amdt. dated January 5, 2004
Reply to final Office action of November 12, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Twice amended) A method for processing a notification having a tagged value, comprising:

(a) receiving the notification that includes a tagged value that indicates a count;

(b) determining a current synchronization state;

generating a current synchronization checkpoint count value based on the current synchronization state;

comparing the count of the tagged value to the current synchronization checkpoint count value; and

(c) processing the notification when the count of the based-on tagged value is current with respect to the current synchronization checkpoint count value, otherwise managing the notification and the synchronization state.

2. (Currently amended) The method of Claim 1, wherein determining a current synchronization state, further comprises:

(a) setting a synchronization currently in process state when a synchronization is in process; otherwise

(b) setting a synchronization currently not in process state.

3. (Twice amended) The method of Claim 2, wherein managing processing the notification based on the tagged value and the synchronization state, further comprises determining when the current synchronization state is set to the synchronization currently in process state, and when:

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(a) processing the notification when the tagged value is current with respect to a current synchronization checkpoint value;

(b) discarding the notification when the count of the tagged value is stale with respect to the current synchronization checkpoint count value; and

(c) handling the notification when the count of the tagged value is out-of-date with respect to the current synchronization checkpoint count value.

4. (Twice amended) The method of Claim 3, wherein handling the notification when the count of the tagged value is out-of-date with respect to the current synchronization checkpoint count value, further comprises determining if the count of the tagged value corresponds to a lost request key, and if so processing the notification, otherwise discarding the notification.

5. (Twice amended) The method of Claim 2, wherein processing the notification based on ~~the tagged value and the synchronization state~~, further comprises determining when the synchronization currently in process state is set, and when:

(a) queuing the notification when the count of the tagged value is current with respect to a desired synchronization level;

(b) discarding the notification when the count of the tagged value is stale with respect to the desired synchronization level or out-of-date with respect to the desired synchronization level and corresponds to a sync level of a lost sync request; and

(c) handling the notification when the count of the tagged value is out-of-date with respect to the desired synchronization level.

6. (Previously amended) The method of Claim 5, further comprising processing the notification when the synchronization currently not in process state is set.

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7. (Twice amended) A computer-readable medium having computer-executable instructions for processing a notification ~~having a tagged value~~, comprising:

- (a) receiving the notification that includes a tagged value that indicates a count;
- (b) determining a current synchronization state;
generating a current synchronization checkpoint count value based on the current synchronization state;
- (c) comparing the count of the tagged value to the current synchronization checkpoint count value; and
- (d) processing the notification when the count of the based-on tagged value is current with respect to the current synchronization checkpoint count value, otherwise managing the notification and the synchronization state.

8. (Currently amended) The computer-readable medium of Claim 7, wherein determining a current synchronization state, further comprises:

- (a) setting a synchronization currently in process state when a synchronization is in process; otherwise
- (b) setting a synchronization currently not in process state.

9. (Twice amended) The computer-readable medium of Claim 8, wherein managing processing the notification based on the tagged value and the synchronization state, further comprises determining when the current synchronization state is set to the synchronization currently in process state, and when:

- (a) ~~processing the notification when the tagged value is current with respect to a current synchronization checkpoint value~~;
- (b) discarding the notification when the count of the tagged value is stale with respect to the current synchronization checkpoint count value; and

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(e) handling the notification when the count of the tagged value is out-of-date with respect to the current synchronization checkpoint count value.

10. (Twice amended) The computer-readable medium of Claim 9, wherein handling the notification when the count of the tagged value is out-of-date with respect to the current synchronization checkpoint count value, further comprises determining if the count of the tagged value is current with respect to a lost request key, and if so processing the notification, otherwise discarding the notification.

11. (Twice amended) The computer-readable medium of Claim 8, wherein processing the notification ~~based on the tagged value and the synchronization state~~, further comprises determining when the synchronization currently in process state is set, and if so:

(a) queuing the notification when the count of the tagged value is current with respect to a desired synchronization level;

(b) discarding the notification when the count of the tagged value is stale with respect to the desired synchronization level or out-of-date with respect to the desired synchronization level and current with respect to a sync level of a lost sync request; and

(c) handling the notification when the count of the tagged value is out-of-date with respect to the desired synchronization level.

12. (Previously amended) The computer-readable medium of Claim 11, further comprising processing the notification when the synchronization currently not in process state is set.

13. (Twice amended) A system for synchronizing data, comprising:

(a) a processor and a computer-readable medium;

(b) an operating environment stored on the computer-readable medium and executing on the processor;

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(e) a communication connection device operating under the control of the operating environment; and

(d) a notification device operating under the control of the operating environment and operative to perform actions, including:

(i) receiving a notification that has having a tagged value that indicates a count;

(ii) setting a synchronization state to a currently in process state when a synchronization is currently in process, otherwise setting the synchronization state to a synchronization currently not in process state; and

(iii) processing the notification based on the count of the tagged value and the synchronization state.

14. (Twice amended) The system of Claim 13, wherein processing the notification based on the count of the tagged value and the synchronization state, further comprises determining when the synchronization state is set to the synchronization currently not in process state, and when:

(a) processing the notification when the count of the tagged value is current with respect to a current synchronization checkpoint count value;

(b) discarding the notification when the count of the tagged value is stale with respect to the current synchronization checkpoint count value or out-of-date with respect to a desired synchronization value and current with a lost sync request; and

(c) handling the notification when the count of the tagged value is out-of-date with respect to the current synchronization checkpoint count value.

15. (Twice amended) The system of Claim 14, wherein handling the notification when the count of the tagged value is out-of-date with respect to the current synchronization checkpoint count value, further comprises determining if the count of the tagged value is current

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with respect to a lost request key, and if so, processing the notification, otherwise discarding the notification.

16. (Twice amended) The system of Claim 15, wherein processing the notification based on the count of the tagged value and the synchronization state, further comprises determining when the synchronization currently in process state is set, and when:

(a) queuing the notification when the count of the tagged value is current with respect to a desired synchronization value;

(b) discarding the notification when the count of the tagged value is stale with respect to the desired synchronization value; and

(c) handling the notification when the count of the tagged value is out-of-date with respect to the desired synchronization value.

17. (Previously amended) The system of Claim 16, further comprising processing the notification when the synchronization currently not in process state is set.